

Name: _____

at1113exam: Expand, factor, and solve quadratics (v334)

1. Expand the following expression into standard form.

$$(7x - 6)(8x + 9)$$

2. Expand the following expression into standard form.

$$(8x - 3)(8x + 3)$$

3. Solve the equation.

$$(8x + 7)(2x - 9) = 0$$

4. Expand the following expression into standard form.

$$(7x - 8)^2$$

5. Solve the equation.

$$6x^2 + 28x + 70 = 4x^2 + 3x - 2$$

6. Factor the expression.

$$x^2 - 4x - 32$$

7. Factor the expression.

$$9x^2 - 49$$

8. Solve the equation with factoring by grouping.

$$12x^2 + 10x + 18x + 15 = 0$$